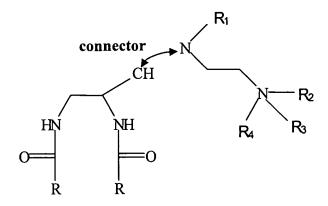
## Claims

1. Cationic lipids of the general formula S for nucleic acid delivery in vitro and in vivo.



## Structure S of cationic lipids for claim 1.

 $R = C_{11}H_{23}, C_{13}H_{27}, C_{15}H_{31}, C_{17}H_{35}, C_{17}H_{31}$ 

 $R_1 = H, \ CH_3, \ CH_2CH_2NH_2, \ CH_2CH_2NHCH_3, \ CH_2CH_2N(CH_3)_2, \ CH_2CH_2NH-C(NH_2) = NH$ 

 $R_2 = H, CH_3$ 

 $R_3$ = H,  $CH_3$ 

 $R_4=H, CH_3$ 

: -CH<sub>2</sub>-, -CO-, -OCO-, CH<sub>2</sub>CH<sub>2</sub>, -CH<sub>2</sub>CO-, CH<sub>2</sub>OCO-, -CH<sub>2</sub>CH<sub>2</sub>CO-, -CH<sub>2</sub>CH<sub>2</sub>OCO-

The connector shows how the two parts of structure S can be chemically linked together.

2. The delivery system of claim 1 and any other ingredient that is added to the system of claim 1 for biological activity or any other technological reason.